All

	A	AE:	SS	AG	ΕD	ISP	LAY	,
--	---	-----	----	----	----	-----	-----	---

Message number 32

自 曾 日

TRASH

Move

headers

Date: 1/22/2003 21:02:31 -0500

From: Martin Friedman < friedman@libertynet.org>

3

To: Suzanne Zammit <suzannez@stargate.relcomm.net>

Subject: Re: Questions Atlantic City Public Schools Form 470 Internal Connections

32

Suzanne.

I received the FedEx today.

The District has not supplied us with the level of detail for which you are asking. As such, we are asking vendors to take a walk-through and provide the District with a "best solution."

I understand that John Holt has been contacted by RelComm and that you are participating in this Friday's walk-through. I also believe that he emailed RelComm the same information packet as was provided to all other vendors.

Yours,

8.4

on 1/22/03 12:58 PM, Suzanne Zammit at suzannez@mail.relcomm.net wrote:

- > Dear Mr. Friedman:
- > I apologize for the garbled text in my last email, I have resaved the
- > list of questions as a Word document so you should now be able to read
- > the attachment. I have also sent this document to you via FedEx, which
- > you should receive today. We will need to have the answers to these
- > questions in writing and as you have instructed in your email, we will
- > contact John Holt to set up a walk through before sending our bid.
- > Sincerely.
- > Suzanne Zammit
- > RelComm Inc.

Martin Friedman, President ALEMAR Consulting friedman@libertynet.org www.alemar.net

"We're all prisoners here, of our own device."

"At every crossing on the road that leads to the future, each progressive spirit is opposed by a thousand appointed to guard the gates of the past."

-Maeterlinck

NeoMail version 1.25

REL1276

RelComm Inc.

The Reliable Communications Company

January 21, 2003

Martin Friedman 442 Lyndhurst Drive Broomall, PA 19008-4146

Subject: Re; Atlantic City Public School District Form 470 Internal Connections

Dear Mr. Friedman:

We will be responding online to the bid for internal connections for the Atlantic City Public School District. We need the answers to the questions below no later than 7 days from the date of this letter. We will also need to know when the bids will be opened. Thank you in advance for your cooperation.

Is there are master design of the network? Are you requesting a network design service? We would like to request more detailed information on the services requested. Will you be requesting additional proposals for non-eligible items and services?

LAN Maintenance Agreement all eligible items, 10 bldgs.

What is the type of network (more details, please)?

What type of workstations at each location (Mac, PC, UNIX,...)?

What type of servers (Mac, PC, UNIX,...)?

What is the type of the network equipment (hubs, switches, routes, provide models if possible)?

How are the buildings connected with each other?

What kind of maintenance is required (please list the services)?

Which of the eligible items are applicable to your network?

Wire & Cable Maintenance all eligible Items, 10 bldgs.

Please provide type of cabling required.

How many cable runs are required?

Please provide the building maps with marked socket locations and the location of the network hub.

Which of the eligible items are applicable to this part of the request?

408 Bloomfield Drive, Suite 3 ■ West Berlin, NJ 08091 Phone 856-809-1056 ■ Fax 856-809-1058

Telephone System Maintenance existing eligible equipment

What telephone equipment is currently installed?

Please present the telephone system infrastructure.

What type of maintenance you are looking for, just the extended warranty, equipment reconfiguration and periodical checkups of functionality, system administration?

Extended Warranties existing and new eligible equipment

Please present the equipment list you are requesting extended warranties for (types, makes, models).

Project Management all Y6 eligible projects

Please list the projects, you are looking to implement.

Web/email Server 25

Please provide detailed specification on the hardware, software and locations of the servers.

- a. Number, type and speed of CPUs (capability).
- b. Amount, type and breakdown (per unit) of memory.
- c. Amount of disk space and the type of the disk storage.
- d. Number and type of the network adapters.
- e. Any extra devices (cd-roms, tape drives, floppy ...)
- f. Requirements to video.
- g. Type of the operating system.
- h. Type of the e-mail and web software to be installed.
- i. Number of clients served by each server.
- j. Type of firewall
- k. Reason for amount of servers

Please provide the base model if possible.

Is the base model the requested one, or does it represent the base set of features?

DHCP Server 12

We need the same hardware and software information as above.

DNS Server 12

We need the same hardware and software information as above.

Back Up systems 12

Does it mean separate tape type devices, UPSs or are they just spare servers? If these are tape systems, please provide specification on these devices or at least base model and capacity.

VOIP System w/video all eligible items

Please explain your definition of VOIP system. Is it software running on the existing system? Is it a separate hardware system or infrastructure of systems? If so please provide the base model or detailed specifications.

Video Equipment EMMI, MCU, enhancer, MptCU, amplifiers, VCM

What will be the purpose of this equipment? Please provide the base model or detailed specification of the requested equipment.

Wireless LAN 20 areas, 803.11b ans 802.11a compliant

What type of devices should be used as access points (bridge, router, or firewall)? Should the access points to be capable of both protocols, or the combination can be capable of both and not separate devices? If available, please provide the base model.

Internal cabling 980 drops, CAT 6

Please provide the building diagram(s) with marked locations. What type of cabling should be used?

Network Electronics LAN extension & enhancement

Please specify the types and tech, specifications of the equipment requested.

Network OS Windows's 2000 server (60) & clients (7500)

What type of licensing is requested? Please provide the breakdown by types and quantities.

Again, thank you for your cooperation and responses should be directed to Konstantin Reznitsky at rkv@relcomm.net or 408 Bloomfield Drive, Suite 3, West Berlin, NJ 08091 phone 856-809-1056.

Sincerely,

Konstantin Reznitsky Director of Technology RelComm Inc.

Ali

headers

MESSAGE DISPLAY

Message number 42

图 母相句 图

TRASH

Move Move

Date: 1/21/2003 20:06:08 -0500

From: Martin Friedman <friedman@libertynet.org>

To: Suzanne Zammit <suzannez@stargate.relcomm.net>
CC: rkv@relcomm.net, John Holt

bjholtjr@hotmail.com>
Subject: Re: Atlantic City Public Schools Form 470 Applications

Suzanne.

As you can see below, your questions arrived as a jumble of characters.

We have limited the bids on internal connections to vendors who have completed a walk-through of the sites in question. One walk-through has already taken place and, I believe, that a second walk-through is being scheduled for this week. Please contact John Holt at 215-588-4944 to be placed on the tour.

In addition, we are accepting only sealed bids. I will be more than happy to entertain any questions that you may have online but I must receive the bid by January 31, 2003 at 4P.

Yours,

M

on 1/21/03 3:31 PM, Suzanne Zammit at suzannez@mail.relcomm.net wrote:

- > Dear Mr. Friedman:
- > Attached you will find a list of questions regarding the 470
- > applications for Internal Connections for Atlantic City Public
- > Schools. We will be responding to the bid online and we will need to
- > have the questions answered within the time frame stated on the
- > letter. Please see the attached document.
- > Any questions that you have should be directed to Konstantin Reznitsky
- > at rkv@relcomm.net.
- > Sincerely.
- > Suzanne Zammit
- > RelComm Inc.
- > Phone 856-809-1056
- > Fax 856-809-1058

> {\rtf1\ansi\ansicpg1252\uc1

- > \deff0\deflang1033\deflangfe1033{\fonttbl{\f0\froman\fcharset0\fprq2{*\panose
- > 02020603050405020304}Times New Roman;}{\f1\fswiss\fcharset0\fprq2{\f4panose
- > 020b0604020202020204}Arial;}
- \f2\fmodern\fcharset0\fprq1\f\panose 02070309020205020404\Courier
- > New; \{\f14\fnil\fcharset2\fpro2{*\panose
- > 020b0604030504040204}Tahoma;}
- > (\f36\froman\fcharset238\fprg2 Times New Roman
- > CE;}\/\37\\froman\fcharset204\fprq2 Times New Roman
- > Cyr;}{\f39\froman\fcharset161\fprq2 Times New Roman
- > Greek;}{V40\froman\fcharset162\fprq2 Times New Roman Tur;}
- > {\f41\froman\fcharset177\fprq2 Times New Roman

REL1279

.

.

DORS' LIST

Company	Address		Name	•
MICRO Techno	York Graupe	, 3114 vid Fodgar Rog	1 8009 Rich	inkchois T
			· ·	
1 Toolist	Technology	1790 170704.	MICHATE.	ROFIL
		Chorny Hell N.J.		
(not)		25 (206) 5325	Sup De.	
Jox Constant	200	& N.W Barlow	Contee	Marie Control of the
•	293	8		
,		•		
· · · · · · · · · · · · · · · · · · ·		· · · .		
		· · · · · · · · · · · · · · · · · · ·		
	•		• • •	
:				
	·	•		
				·
		· · · · · · · · · · · · · · · · · · ·		

F9X NO. :6107778545

M NO X



Fax Transmission

Date:

7/8/03

To:

Elijah Phonpkin

Atlantic City SD

Fax Number:

(609) 347-1549

From:

Rich Linkchorst

Machier Contrology Caroupe

Our Phone:

(610) 777-8650

Our Fax:

(610) 777-8545

Number of pages including this cover page: 13

This is part 1 of 2 of the total fax transmission.

Atlantic City BE-Admin 1809 Patific Avenua Atlantic City, NJ 08401 (609) 343-7200



MFCRO Technology Groups, Inc. 311 A Rodgers Road Bristot, PA 19007-3015

1/27/03

MICRO Technology Groupe Erate SPIN 143008940
All teachware or software will be perchased as listed or "newer"

Erate Eligible File Servers

Otsc Otsc -12 -12 -12 -12 -12	er Coder <i>Natio</i>ser 257918-001	Dancherless		Unit Price		
12	***************************************	URREPRETER!		INT PICE		
	527319-081	The state of the s	_		_	Total Price
		Compag Product ME370 G3 Xeon-2.4GHz, 512 MB, 48xCD, 10/100/1000 Rack	\$	2,251.00	\$	27,012.00
1.7	\$\$\413-62\	Company Years 2.4 GHz Processor Option kit for Mt. 370	\$	239.00	\$. 6 ,456.00
	158-87 3 00E	Compag 512 ME PC2100 DDR (2x256MB) Memory	\$	305.00	\$	3,660,00
24	:83122-822	Compag 18 CB 15K Universal Wide SCSI U3 1 Rt pluggable hard drive	\$	323.00	3	7,752,00
. 12	2253964821	Correst Strart Acray 532 Controller	3	538.00	\$	6,456.00
12	223075-001	Compact tot prug fredundant Power supply		193.00	\$	2,316.00
12	22'x0: 3-82	Compag Hot plug Redundant Fan	÷	136.00	-	174.00
		This that stage with a 3 Year On-site Warranty with Next Busitiess Day Service	ــــــــــــــــــــــــــــــــــــــ	Sets Total	\$	53,826.00
			.م ها		. 	
NS Sorver		•				
Qty.	Quien trumber	Description		Unit Price		LOCAL Price
1.2	257918-001	Domping Primiting Mr. 370 GB Xeon-2.4GHz, \$12 MB, 48xCD, 10/100/1000 Rack	\$	2,2\$1.00	\$	27,012.00
12	257917FQ1	Compant Assert A. GHz Processor Option ldt for ML370	\$	\$38.00	\$	6,456.00
. 12	390689-821	Corress 256 PC2100 OCR (2X1GB) Memory	\$	1,213.00	\$	14,556.00
24	138122-822	Compaq 16 (28 15K Emiversal Wide SCSI U3 1 NV pluggable hard drive	£	323,60	\$	7,752.00
12	\$25396-831	Compag Smart Array 537 Controller	\$	\$38.00	Š	6,456.00
12	225075-001		*		-	
		Compag Hat dury Redundant Power supply		193.00	\$	2,316.00
12	229073 B21	Compan Hou plug Redundant Fan This und ships with a 3 Year On-site Warranty with Next Business Day Service	.i_ <u>}</u> _	13€.00	* .	174.00
4		THE OUT WHEN ANY IS STORY OF SITE ASSESSMENT MENT DEPUTED THAT SELECT	ช[Sub Total	₹	64,722.00
Veb/Email	Server					
Oiy.	Order Number	Destriction		Unit Price		Total Price
25	25 '918-001	Compaq Fromost ME370 GB Xear-2.4GHz, \$12 MB, 48xCD, 10/100/1000 Rack	3	2,251.00	5	56,275.00
25	257913-621	Compay Xikon 2.4 GHz Processor Option kit for ML370	Š	538.00		13,450.00
	300660-821	Company Self metricing State Office Constant Company and Property Company				-
50		Company 208 PCZ 100 ODX (ZXTGB) Memory	¥.	1,213.00		£0,6\$0.00
.75	234316-623	Gorgan Ed. (GE) 15k striversal Wide SCSI U3 T IN pluggable hard drive	\$	\$02.00	\$	37,650.00
25	225338-821	Colleged Small Array 532 Controller	3	538.00	\$	13,450.00
55.	244948·H21	Coraguiq NOT 170 PCF-X Gligabit Server Adapter	\$	183.00	\$	4,575.00
54	225075-001	Compay For plug Redundant Power supply	\$	193.00	\$	4,825.00
25	225073-B21	Compay him only Redundant Fan	Š	136.00	\$	174.00
		This was stillos with a 3 Year On-sine Warranty with Next Business Day Service			- 5 -	191,049,00
ierver Rad	k	Carry and an area of the same and the same a				
Civ.	Order Number	Cescipilar	•	Unit Poles		Total Price
1.5	\$1640%	APA Norst-med YK 42 () Fack	\$	1,495.00	\$	17,940.00
12	67.6017	AP: 1301:00 mostov keyboard drawer with nut keyboard/trackball 10	S	1,895.00		22,776.00
	Lower cost obtain -	instead of the Lab monitor ha you can purchase a 15° CRI and rack shell. Thisse p	rices a			
		# 579047 - \$157.00				
	APC morning shell is	2525/ X + \$4 4.00		•		
		177 - \$199,00 (47m keyboard with integral number pad/touchpsd)		-		
		Legistion Ettie 66 The case and Commentation and another transfer beaution theology				
12	744575		*	5A0 60	٠	\$ COC 153
		AM space feet his	. \$	90.606		3,696.00
12 .	0\$1336	Bettern Berker EVFK spiritin	\$	286.00	\$	3,432.00
48	31.5.±68	Setting CVR Lindle Set	\$	25.00	3	1,200.00
ninterructible	ePower Swords it was	(quality server and true book up)				-
12	073192	Amer, Power Cony, Smart-UPS 3000 rack mount	2	1,531.00	\$	18,372.00
17	073108	Artist Power Conv. Smart-UPS Battery Pack 48 V	\$		š	5,916.00
		Piccost netwo: This requires a Twist lock 120 V 30 arms plus	. •		•	
			Su	b Total	\$	78,332.00
Same Same	Administrações de la constante			T		
ODY.	Advenced Server Lie					
	Order number	(Searcharlo))		Utilit Price		Total Price
. 49	523469	Windows Saver 2000, Advanced Server	\$	492.00	\$	24,108.00
	122181	Otent Listaine (in noeded)	\$	6.46	\$	48,450.00
7500		The former on a reference of the control of the former of the Control of the Cont		showen tracketones		được.
7500	thice, the interest co-	- 55 to 500 - 6 to 6	NICC2	SOURCE HEAR KITTERS		atuy.
	thite, the interest pro 430205	35 a Based on a volume purchase. If you order less licenses than listed above, the p Media for Presidens Server 2000 Advanced Server.	#1CG2	28.00	- \$	336.00
7500 72	430505	Missing for Warstonks Server 2000 Advanced Server	\$			
7500 72 lack Up sant	thate, the increse pos 4 50205 that that the Sakrean Andre Mandan	Missing for Warstonks Server 2000 Advanced Server	\$	28.00	*	336.00

. 12	192106-825	Compaq StorageWorks SOLT 110/220 Tape Drive, carbon	\$	3,641.00	\$	48,692,00
		First, 92-93 mill need to purchase tape cartridges. Tape cartridges are not E-ra 3 year Parts warranty.	ite eligible.		Ť	11100
12 -	49:224	Ventas Birck Up Exec for Advanced Server with 1 year 24x7 maintenance	\$	745.00	\$	8,940.00
49	491309	Server Agent with 1 year 24x7 maintenance	\$	145.00	Ś	7,105,00
12	491 865	Oven File Agent with 1 year 24x7 maintenance	\$	433.00	\$	5,196,00
12	491269	Agent for Exchange with 1 year 24x7 maintenance	\$	495.00	\$	5,940.00
15	435385	Mitta Kit	\$	36,00	5	432.00
		•	\$	ist Total	\$	71.305.00

Installation

Complete Installation and configuration of the 49 Erate servers
MIG will provide a formal Statement of Work before installation is scheduled
based on therrice requirements determined in our Engineering study.
Segret Training for 10 buildings
Statt will be trained on the hardware, software, and working procedures
not the Orisi CHED, and Web/Email servers.

96,000.00

\$ 20,000.00

Purchase Orders May be Sent to: MICRO Technology Groupe 311A Oko Hoogen: Houd Bristol, PA 19007 FAX: 877-329-9684

MCRO Technology Groupe Erate SPIN 143008940

Atlantic City BE-Admin 1809 Pacific Avenue Assertic City, NJ 08401 (609) 343-7200



MICRO Technology Groups, Inc. 311 A Redger Roed Bristol, PA 18007-3015

1/27/03

MCRO Tecturology Groups Erace SPIN 142008940 archivers or authorize will be plantimed as listed or *mwwe-

Erate Eligible Network Electronics for the Elementary Schools

Coce Filter Switch for HLK

Otto:	Certier teamper	Overtightso	•	Unit Prior		Tutal Price
2	WS-C6509-1300-W-	Catalyst 5509 Chassis w/1500AC Power Supply	s	9,050.00	\$	18,100.00
2	M2C2C-1300Ma	Catalyst 5000 1300W Second AC Power Supply	\$	2,58\$.00	Ś	\$,170,00
6	CAB-79.AC-15	AC Power Cord North America, 15A	\$	*	\$.	•
1	45-4654-8154-5	Citzly :: 9500 15-port 10/100, RJ-45, x-bar	\$	11,650.00	s	11.650.00
` <i>&</i>	医假囊畸形 使用的	Cutally of 6000 Suprivisor Flesh Imaga, Ralesse 6 1	•		\$	
Ž	WS XEG STA-MSFC2	Cataly of 6000' Supervisor Engine 1-A, 20E, plus MSFC & PPC	\$	19,400.00	Š	38,800,00
. 2	WES KEN-STALKERSELET	Coopy t 2000 Redundant Superview Bryling 20E, whiste and PFC	•	-5.1	Š	30,000.00
Ø.	MEH MEAL TERMS	CATESTY A GOOD MIST CHEM, 126MB DRAM Option			\$	
2	SCHAFCD-12.0.TXE-37-	CHERRY SE FORCE MISTIC IOS-Desictor			ž.	
4	W3 X8458A-SBC	Cataly & 60% 8-port Gloubit Ethernet Module (Red. GBKS)	3.	6.470.00	Š	25,880,00
48	WS-1/3+de	1000 ASE WITH king trad GBIC (singlemode or multimode)	\$	645,00	ž ·	30,960.00
1	cass an obt 17	Packaged MANTHER ExSMED - Creegory 17	£	5,525.00	Š	5,523,00
. 1	•	AND THE STATE OF T	,	*****	Š	12,000.00
			Sub 1	otal		#148.0as

Come Subsches for the Cleanestery Schools

tity.	Exden Hember	Centralism		Hoft Peles		Total Price
10	www.c6506-1300	Catalysis HSRR Charass w/ 1300W AC Power Supply	\$	6,467.00	\$	64,670.00
10	40-204-32-004C2	Circlys: 550) Supervisor Engine-2, ZGE, plus MSFC-2 / PFC-2	\$	14,235.00	\$	142,350.00
19	*### 1300	Catalyse WIRKS YSOON AC Power Supply, Space	\$	2,585.00	1	25,850.00
10-	သောကေး-ရာမှုနက်	Probagus Secretaries Exchited - Category 18	\$	4,210.00	\$	42,100.00
25	went (1811 45	Catalysis 65170 48-post 10/100, 8145, 8-bar	\$	11,650.00	\$	233,000.00
40	were the little from	Cutalyst \$500 Switch Fabric Module	\$	4,850.00	\$	48,500.00
10	was said labor April	Catalyas 6000 & port GE, Enhanced QoS	· \$	6,470.00	\$	64,700.00
10	673103	Artier, Forver Conv., Smart-UPS 3000 rack mount.	\$	1,\$31.00	\$	15,370.00
	Photos rough This required a Two	this back 120 V 30 amp plays. School he required to provide for the fin	audiction of the	his phase.		
10	621169	Amer Power Come Sinsin-UPS Battery Pack 48 V	\$	493:00	\$	4,930.00
* *,		Windowski 1867			\$	30,000.00
		•	10.4	Terrol		4671 410

Network Edge Enttches for the Florientery Schools

O.X	Crobac Atlantates	Personalis	1.6	ott Prica	Total Price
\$0	. 2950g-48 ports	Causiyor 2350, 45 TU/100 with 2 GERC store, Enternood Image	\$	2,925.00 \$	234,000.00
60	con-ait piccú	Class Prohiged SMARTnet 8/5xNBD - Category 6	\$	450.00 \$	36,009 00
60	१ ०० टरें 5,30 में	HigaStaria Stricting EBEC and 50cm eable	· \$	£65.00 £	13,200,00
40	wa-gh-24.	1 DOOR 25F-SK Shore Wavelength GBC	\$	325.00 \$	12,000.00
5 🚊	\$\$4 ~ 72	Amer, Power Come Smart-BPS 700 Reck Mount	\$	391.00 \$	12,903,00
7		रंगक्रमेक्ष्मित राज्य		\$	30,000.00
			Bub To	cal	\$330,103

Gloubit Server Connectivity (for Year & E-rate alignie servora)

QIX.	Option Manufact	Generals lettle	Link Pike Lotel Pike \$ 255.00 \$ 12,544.00 \$ 12,544.00 \$ 12,544.
44	254372	Oleco on National or days	
Natwod)	i. Dadument etjen	Stateon: Discussionalities and diagrams (Assumediation will be provided in paper and electronic form).	\$5,000

Heterook Connection to the Hoduler links

We understand modular consecutors are used at Englanderic frozona Complex, Cholsee, and Verice Park. We can provide a wireless connection from the school bulblings to as modular vides. (The examplement of an object any wiring within the modular fooms. The wireless connection can provide network occess to the modulars.)

Staff to dies on Dece services electronica

est thin se head a set with

Cox.	itensia vien		Unit Frice		Test Piles
a	कील्डीब्यूक ने १९०५ का ने उनसे	\$	1,550.00	\$	6,200,00
4	Window Rudge	\$	1,550.00	\$	€.200.00
4	Autority and hearts for Au and Wa	\$	290.00	€	800.00
4	持った機能を呼	\$	1,759.00	5	7,000,00
1	· British Care	.\$	500.00	\$	2,500.00
	riose. Consequency took are Emale digitale. Due to the acope of work	Set 1	Notel		22,700,60
	an illustry i resonanted scheduling for a contingency fee. The contingency			-	
	If N 18 70 (1876), the street that temperature externations are a send and amount of the second			-	

\$5,000

Atlantic City BE-Admin

1809 Padific Avenue Atlantic City, NJ 08401 (609) 343-7200



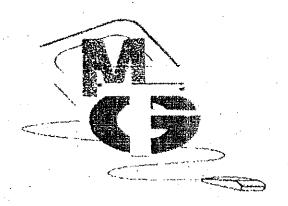
MICRO Technology Groups, Inc. 311 A Rodgers Road Bristol, PA 19007-3015

1/27/03

MICRO Technology Groupe Erate SPIN 143008940 All hardware or software will be purchased as listed or "nerver"

Erate Eligible Wireless LAN Access

Qty.	Order Number	Description		Unit Price		Total Price
20	654628	Cisco Aircriet 1200 Access Point 802.11b	\$	655.00	\$	13,100.00
59	563104	Cisco 802.11a Wireless	\$	364.00	Ś	7.280.00
		Mola, if you use both a and b simultaneously, you will need AC power	er near th	ne Access Point	-	7
40	410797	Cisco Aircnet Antenna	\$	14.00	\$	560.00
20	55864 3	. Osco 1200 platform 110-220 Power supply	\$	74.00	\$	1.480.00
2:1	699058	Ciscus Stroy (NET Maintenance 8x5xftBD, One Year CON-SNT-PKG1	\$	67.50	\$	1,350,00
20		Virginia Linu widing closer to location of the Access Point	5	190.00	£	3.800.00
1	•	Complete meallation of the 20 Access Point		<u></u>	\$	10,000.00
,	-			Sub Total	\$	37,570.00



Fax Transmission

Date:

7/8/03

To:

Elijah Phonpkin

Atlantic City SD

Fax Number:

(609) 347-1549

From:

Rich Linkchorst

MICRO Technology Groupe

Our Phone:

(610) 777-8650

Our Fax:

(610) 777-8545

Number of pages including this cover page: 6

This is part 2 of 2 of the total fax transmission.

Hitt.

January 30, 2003

Mr. Martin Friedman 442 Lyndhurst Drive Brownall, PA 19008

Dear Mr. Freidman,

MICRO Technology Groupe, Inc. (MTG) is pleased to submit this comprehensive proposal for the Atlantic City Board of Education Tear 6 E-rate application.

We have proposed a solution for internal connections. This includes: cabling, network electronics, servers, and video. It also includes installation costs, maintenance agreements, and engineering costs.

We have used hardware from Cisco Systems and Compaq (HP) for the servers and network electronics. As you are aware, Cisco and Compay are widely recognized as leaders in the technology industry.

We have configured the servers as per the bid specifications.

We feel the wiring in many of the schools should be replaced. We are not willing to provide any LAN bullancements using the existing wiring in those schools. We have provided prices to rewire (or add wiring) to the buildings. There is a per drup price for a cable run which will allow you to make any add/deletes to the number of runs that we propose.

We understand the district has two-pair fiber optic cable from each school building to the Dr. Martin Luther King School Complex. We propose to use this fiber as the districts' Wide Area Network links. We propose two Cisco Catalyst \$509 switches to provide redundant WAN connection.

Further, we propose Clisto Catalyst 6506 switches in each school building with Cisco Catalyst 2950 stackable switches in the various network closets.

Please he aware there are a few issues the district must address. They include providing adequate environmental conditions in the wiring closets and providing proper electrical power in the buildings. We do not believe these services are eligible under Year 6 of the E-rate program. MTG can provide the names of companies who offer such services.

MTG has been providing technology solutions to schools and businesses since 1989. We offer the highest quality of support on both the Windows and Macintosh platforms. We understand the district uses a mix of Windows and Mac OS computers. We believe we can partner with the district to become a reliable and valued Systems Integrator.

We would appreciate to speak with you and the district regarding our complete proposal. I can be reached at (877) 366-3684 ext. 385. Please be aware, we recently moved our company headquarters to 311A Old Rodgers Road, Bristol, PA 19007. We can be reached on the web at www.mtgroupe.com.

Thank you for your time and courtesy.

Regards,

Richard D. Linkchorst Account Executive

Overview

Micro Technology Groupe participated in a site visit to the district for the purpose of providing a proposal for the Board of Educations' Form 470 E-rate application.

Based on that visit, we recommend the district address several areas.

1) <u>Wiring Infrastructure</u>. The foundation of your network is the wiring infrastructure. It is an extremely critical component of your network. Without a properly designed and installed cable plant, a network will consistently matruoction.

The winning in the school buildings (with the possible exception of the High School, Uptown Complex, MLK, and Chelsea Heights) consists of classrooms that have a single category 5 cable that originates in a wiring closet. That cable is terminated for a satch panel in an enclosed cabinet near the ceiling of the room. From that classroom patch panel, there are approximately seven category 5 cables that are terminated into RJ 45 boxes near the location of this computers.

In addition, there are computer labs that have wires that are not properly terminated. They should terminate into an RJ 45 patch panel in a secure wiring closet. The labs have cables runs that are directly plugged into two switches that sit on the permeter of the room. The switches (and corresponding cable runs) are not secured within a wiring cable. Such a cable installation is not acceptable and does not meet industry standards for cabling.

This is not an efficient network infrastructure. All of the elementary schools should have a cable plant similar to the High School.

All cable drops in the classrooms should be terminated in a centrally located wiring closet. There should be one wring closet identified as an "Main Distribution Frame," or MDF. The MDF should be connected to the other wiring closets, or "Intermediate Distribution Frames" (or IDF) with a fiber optic cable.

in addition, all cable patch panels should be housed in lockable wiring cabinets. There are open frame, tinsecured, wiring racks in the elementary schools. The wire rack in one school is placed undemeath a pipe. All tretwork and wiring components should be placed with no possible interference with any moisture, falling particles or electric.

Our recommendation is to replace the existing wiring in six elementary schools with a minimum of 250 new cables that follow the requirements listed above. (These schools are New Jersey, Ohio, Indiana, Richmond, Brighton Avenue, and Texas) Since there appears to be some adequate cabling in Uptown Complex, we recommend adding 100 property terminated copper cables. This will allow us to rewire the computer lab, and library, among other locations. Venues Park is a small building. We recommend 75 network cables for that hubbary.

Further, since we understand that MLK and Chelsea Heights are upgraded, we recommend 100 Category Se drops for those buildings.

(We have provided per drop prices in our price sheet. You can add/delete the number of Category Se cables based on our per drop count.)

Please note, these new drops for Mi, K, Chelsea Heights, the High School, and Uptown can work with a Voice over iP (VoIP) relephone system. We understand the current telephone wiring is Category 3. You need Category Se cabling for VoiP

From our observation, the High School appears to be properly cabled. Without testing all of the cables (which is a fee-based service) we cannot guarantee all cables are certified Category 5 or 5e cables. We recommend submitting for a Wire Maintenance Agreement for the High School in your E-rate Form 471. This will help cover any unforeseen circumstances with the high school.

Please note, we observed instances of cables clearly not meeting industry standards for Category 5 cabling in the elementary schools

Category Se cabling is an approved service in Year 6 of the E-rate program.

Hill.

Network electronics - The next step after your cable plant is the installation of network electronics.

(fur recommendation is to replace the existing hubs and switches with chassis-based switches (with routing capability) for the Network Core and stackable 10/100 switches at the Network Edge.

All of the network electronics should be placed in the several wiring closets (or distribution frames) that were created by the proper cable installation. These switches should run at 10/100 Megabits per second. The switches in the wiring closets should be stacked with the head end switch connected to the fiber optic cable going to the MDF. This connection speed should be 1 Gigabit per second (1000 Megabits.)

Currently, each elementary classroom has a 10 MB hub. By consolidating your network electronics in the wiring closets, you will make a easter to service the switches. In addition, you will minimize interruptions in the classrooms. Further, by consolidating the switches will enable you to plug the switches into properly-sized UPS units (Uninterruptible power supplies). Using UPS units will reduce network problems.

In addition, by deploying 10/100 Mb switches with a 1 GB backbone, network performance will improve. Many of the current technologies and certainly future technologies require such network bandwidth.

Switches, associated installation costs, and maintenance contracts on the hardware are approved products in Year 6 of the E-rate program.

We have submitted a proposal for upgrading the network electronics in all of the buildings.

Please note, we recommend the district receive a network diagram "as built" immediately after the cable installation is complete and the network electronics are in place. This will prove to be a valuable asset for supporting your network and providing for future growth.

3) Elle Server integration: We understand the district uses a mix of Microsoft Windows-based PCs and Apple Macintosh computers. We have implemented and support numerous school districts with a similar mix of equipment. We find that with a properly designed and installed network, the two platforms can co-exist.

We understand the district in running Unix-based Linux servers, Microsoft NT servers and Apple servers.

Our recommendation is to use Microsoft Server 2000 Advanced Server Edition for the primary server functions. In addition, the Apple servers can still be used to provide auxiliary services for the Macintosh computers

Your Linux servers run our Aspen Systems hardware. We are unfamiliar with Aspen Systems. We are uncertainted to whether the Aspen hardware will support running Microsoft Server 2000 Advanced Server Edition. We recommend making a transition from the Linux platform to Server 2000. MTG can provide support with this transition. This may or may not involve new server hardware.

A further evaluation of the Apple servers will be needed to determine whether they need to be upgraded. We have extensive experience in the Macintosh environment. We can evaluate your Apple servers to determine what upgrades, if any would best suit the districts' needs.

We have submitted a proposal for 49 new Microsoft Server 2000 Advanced Servers for DNS, DHCP, Email and Web. Deploying these servers is a good first step to a stable network environment. These servers are approved products in Year 6 of the E-rate program.

Upgrading or replacing your existing servers are not approved products or services in Year 6 of the Erate program (unless they are a CNS, DHCP, Terminal, or Email server). We can provide the proper consultation for the tuture use of these servers.

4) Environmental concerns: During our site visits, we noticed wiring closets that lack the proper air conditions. These closets contain temperature sensitive equipment. Since it is very likely these rooms will be used even if the schools are re-wired, we highly recommend that the district contract a vendor to provide

proper air solutions. We can provide the names of companies that provide this service. We further recommend installing the proper air equipment where it is deemed necessary.

- 5) <u>Electrical power</u> We also recommend having a thorough evaluation of all electrical requirements for the district. We can provide names of companies that provide such service. MTG requires that every MDF and IDF have the proper power before we begin installing any network equipment. It may be possible that your maintenance department can provide this service.
- 6) <u>Network support</u> We recommend the district contract a reliable Systems Integration company certified in Cisco, Microsoft, Apple. HP and Compaq to provide support to the school. This support should work in harmony with an information Technology staff employed by the district. We understand the district has technology personnel in place, therefore, we recommend purchasing a Network Maintenance Agreement. Network Maintenance Agreements, are an eligible Year 6 service. These maintenance agreements, however, may only nover products that are eligible under Year 6. This includes routers, switches and eligible servers. In addition, we recommend the district purchases a Maintenance Agreement that covers non-Year 6 eligible products such as non-eligible servers, computers, printers, and application software.

In addition, we recommend purchasing a Network Management software program. This will allow you to monitor your network electronics. A network management program is not an eligible E-rate product.

Using this overview, we propose the following for the Atlantic City Board of Education.

Step 1 - Submit for a Year 3 eligible Engineer/Design Study. This study will focus on what equipment is in place and what is the best way to utilize that equipment in conjunction with the products to be purchased under E-rate Year 6. This will allow you to have a reliable plan to address current network problems and how bost to begin solving those problems.

In addition, we can determine what space will be needed for your wiring closets (MDFs and IDFs, - this will allow you to perform Steps 2 and 3 below.)

Cost - \$25 000.00

Step 2. Purchase an trayronmental study. This is not E-rate eligible. MTG does not provide this service.

Cost . To be determined

Step 3 - Purchase an electrical stridy. This is not E-rate eligible. MTG does not provide this service.

Cost - To be determined

Step 4 - Implement reconstitudations made in the environmental and electrical studies.

Cost - fo be determined

Step 5 - if the school district receives E-rate funding, begin the installation of the E-rate eligible and noneligible products. Your first step will be the cable installation, followed by the installation of the network electronics. After your switches are in place you should have your file servers installed. The final step is configuring your workstations to properly access the new network resources.

Cost - For E-rate eligible and non-eligible products and services, please refer to the price sheets included with this document

(Please note, we understand the district is considering submitting for Project Management for Year 6 of Erate. We highly recommend the district purchase a Project Management contract through the Erate program. We will be napply to work with the Project Manager)

Step 6 - Analyze each workstation for network compatibility and implement those upgrades (if required). This is not covered in the fi-cate program.

Cost - To be determined

Step 7 - Purchase the E-rate eligible and non-eligible training courses for the new servers and network electronics

Cost - For E-rate eligible and non-eligible training, please refer to the price sheets included with this document.

Step 8 - If the school district receives F-rate funding, purchase all network maintenance agreements listed on our price sheets.

Cost For E-rate eligible and non-eligible maintenance agreements, please refer to the price sheets included with this document.

Step 9 - Regin needs analysis for Year 7 of the E-rate program.

Cost - We recommend working with your current E-rate consultants to prepare for Year 7. That cost is to be determined by your consultants.

\$0,000.00

400,000.00

1 :000

Atlantic City BE-Admin 1809 Public Avenus Atlantic City, RC08401 (609) 343-7260



MICRO Technology Groups, Inc. 311 A Rodgers Road Bristol, PA 19007-2015

1/27/0

5,000.00 \$

40,000,00 \$

MICRO Technology Groupe Erate SPEE 143008940 All bardware or software will be purchasted as listed or "revier"

EAH Maintenance Agreements for the Elementary Schools

Was Maintenance Agreement for All Category So voice and data winnig

completes in the real 6 trace project.

LAN Main strance Accourant for All Yaze & eligible Network servers, extiches,

tvieleus success policis. UPS unite, beck up drives.

One : AN -fairhors we Agreement to for \$80 hours of on-size support.

Lines Cost appear

\$50 hours of on-site export for \$26,250 \$50 hours of on-site export for \$15,750

Maintenance Agreement for Atlantic City Seard of Education

Same.

3.3

Alimaic Cry Re-Advisi 1609 Pachic Argain Allando Cign NJ 06401

Type of Surport

Entwiner Agreement

^{કે}લ્ડિસ્સ લહે દ

Systema Lagrence for Makiserance of Erica eligible servers, back up delives, network electronics, and UPS units.

Finte-Length of Agraviments

July 1, 2007 to July 10, 2004

Court or Stangert

\$45,000 per school. 10 schools will be covered for a total price of \$400,000.00

Attend Acty BOE will be provided with a Systema East new common intermentation of Service, enriches and other Brists eligible products during the 2002-2003 incheol year. Maintenance will be Settemand or a Time and Eastering Look on products only covered by the E-rate program.
This is a Sectional Agreement. The \$400,000 will be bread upon recount of the action Parchase Order.

Erate interne kac

Personners in contingent upon religion City BOE getting Erate funding at a 90% discount rate. MTG's Erate \$744 is 143006940

Barir or

France derif critic 19: MERO Technology Groups, 311 A Cld Rodgers Road, Bristol, PA 19020. Our fix number is (soll from)

2 (877) 3.99-9684. MTG to reasonable for tracking the engineers' time/materials. We will provide the school with a monthly surromary of

यन चनक इनद तुन्नत्वनार्थंड ब्यान्त्रं केषु त्यत बार्क्सस्टाड.

Contact

first has a loss from incremental the district will use when support is needed.

Total number of superiors however

36%, house per tokend. 10 schools will be covered for a total of 3,800 hours,

Produces to be separated.

40 Servers - Leaveng Problem Words are servens for 1945. DEEP and Empl.

10 Clace 6506 Charses based Division

180 Coco Catayet 29 kir 48 part switches

10 Compagitable up only and back up owntweek

40 AFC IPS INVES

Erete Application and PO information

ABORD Feministry Green 311 A Reigen Bood British PA 1909-3017 MTG Britis SPN 141038960 GAN: 811-829 9684

V D _ U

Atlantic City BE-Admin

1803 Pacific Avenue Attentic City, NJ 08401 (609) 343-7200



MiCRO Technology Groupe, Inc. 311 A Rodgers Road Bristol, PA 19007-3015

1/27/03

MCRO Technology Groupe Erate SPIN 143008940 All hardware or software will be purchased as listed or "newgr"

Cabling

1	fricale	installation of 1850 CatSe cables	\$	375,200.00	\$	375.200.00
1875	22672	3' parch cable Cat Se	\$	3.75	Š	7.031.25
1875	22684	7' parch cable Cat Se	3	4.75	\$	8,906.25
1		Endosures :	\$. 67,200.00	\$	67,200.00
50		Single mode tither patch cable	\$	100.00	\$	5,000.00
S C		Multi-mode filter patch cable	\$	75,00	\$	3,750.00
				Sub Total	. \$	467,087,50

Note, please refer to the Labling Spool of work with this proposal.

Note, the pricing listed above does not include removal/disposal of any existing wining or testing/certification of existing wining. Those services can be provided for \$75.00 per hour.

We estimate it would take 40 hours per building for removal and disposit of existing wiring.

FAX NO. :6107778545

Atlantic City BE-Admire

1809 Pacific Avenue Adantic City, NJ 08467 (609) 343-7200



MICRO Technology Groups, Inc. 311 A Rodgers Road Bristol, PA 19007-3015

1/27/03

MICRO Technology Groupe Erate SPIN 143008940
All hardware or software will be purchased as listed or "newer"

Erate Eligible Design/Engineering Stray

Qty.

Description

Cost for Design and Engineering for the Installation of the eligible Brate Year 6 equipment and services. 25,000.00

Atlantic City 85-Admin

1809 Packe Avenue Attantic City, NJ 0840° (509) 343-7200



MICRO Technology Groups, Inc. \$11 A Rodgers Road Bristol, PA 1,9007-3015

1/27/0

MICRO Technology Groupe Erate SPiN 143008940: All hardware or software will be purchased as flated or "newer"

FVEX Video Equipment

Note, This is a video solution for an elementary action (one school). We can customize solutions for larger school buildings.

	examers and 1 st from products from section with need to purchase non-engine products such as I ve. VCHs, and cameras				o cameras.
QXX.	Ourcriering	Unit, Price		Total Price	
1	37x37 FV8Y Switch	\$	39,500.00	\$	39,500.00
25	Video Modulatos Pali	\$	200.00	\$	5,000.00
. 25	Video Modulator Supply	\$	300.00	5	7,500.00
•	Rack System	· \$	1,000.00	\$	1,000.00
٠ .	Agile Mockilares	\$	350.00	\$	1,050,00
•	Back up EPN ACC 2200 RMEH	\$	964.00	S	954.00
25	Cat. Se cable installation (if needed)	\$.	200.00	. \$	5,000.00
ŷ	Complete trestailation of the PARX System by Contract MTG Emmany	•	2 500 00	4	3 500 00

Migricianos Actividades

Maintenance Agreement for An Year S Erate eligible PVBX Video Products
48 Hours of Chesite support will be provided with this Maintenance Agreement.

\$ 5,000.00

Total \$ 68,514.00

Harchesia Ordera May be Sent to Mc342 Fechnology Group. 31 EA Old Rodgers Road Enstat PA 19007 FAX: 377-339-9684

MD Fechnologis Groupe Erate SPIN 143008940.
A Cad Roberts Road